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PATENT ABSTRACTS OF JAPAN(21) Application number: **61292045**(51) Intl. Cl.: **B01D 13/01**(22) Application date: **08.12.86**

<p>(30) Priority:</p> <p>(43) Date of application publication: 16.06.88</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: TOSHIBA CORP</p> <p>(72) Inventor: TAMURA KUNIO</p> <p>(74) Representative:</p>
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**(54) HOLLOW YARN
MEMBRANE FILTER**

(57) Abstract:

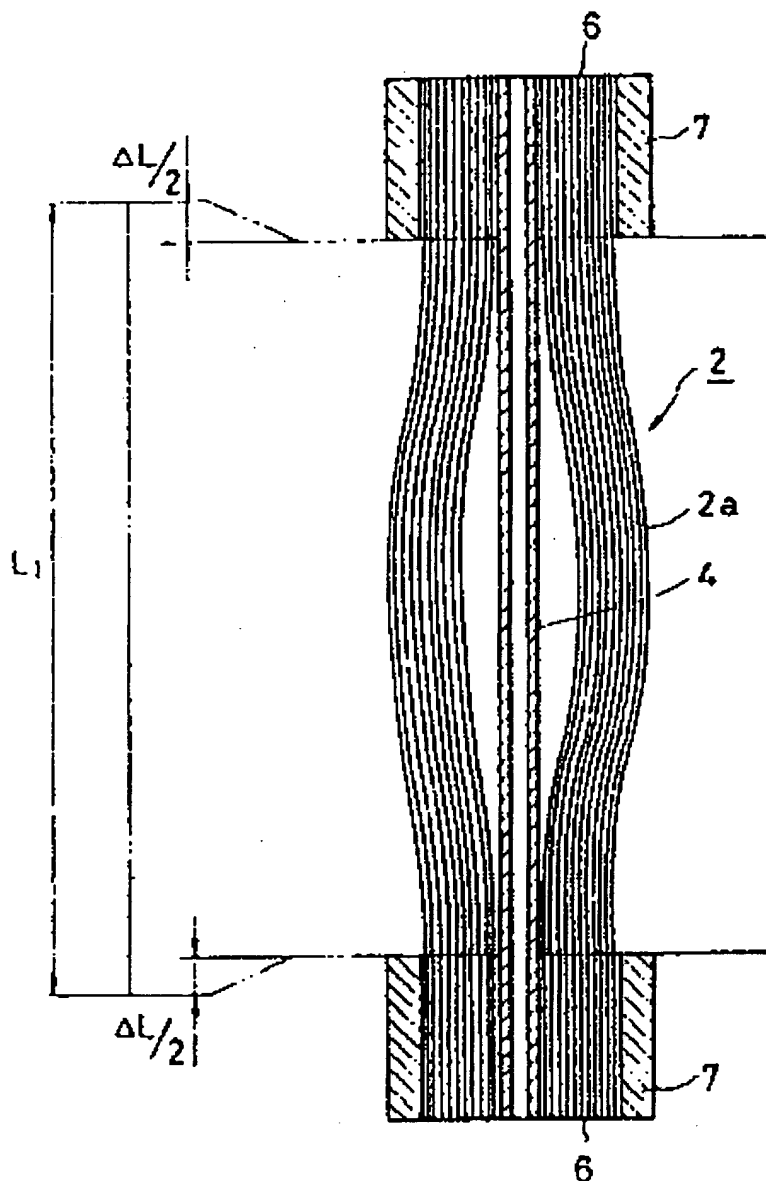
PURPOSE: To prevent the damage of a hollow yarn and to perform effective backwashing, by a method wherein hollow yarns are arranged so that the length of each of the hollow yarns between both adhesive filling parts is so excessive as to satisfy a specific condition with respect to the interval between both adhesive filling parts.

CONSTITUTION: In a hollow yarn membrane filter 2, the length L1 of each of the hollow yarns 2a arranged in a slightly loosened state between upper and lower end adhesive filling parts 6 is set so that an excessive length ΔL satisfies the relation $0.01 \leq \Delta L/L1 \leq 0.04$ (wherein $\Delta L = L1 - L2$) with respect to the distance L2 between both adhesive filling parts 6. By this method, the whirling-up of the hollow yarns 2a at the time of backwashing and the accompanying

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entanglement, bending or breakage can be prevented and, since the hollow yarns 2a are shaken properly, effective backwashing can be performed. Further, a solid component released at the time of backwashing is not accumulated in the hollow yarn membrane filter 2. Furthermore, a liquid effectively flows around the hollow yarns 2a positioned at a central part at the time of filtering.

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